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1 An Internet-based negotiation server for e-commerce

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriyawej, Minsoo Lee, Herman Lam

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Full text available: pdf(355.19 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

2 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

3 Multi-Attribute Dynamic Pricing for Online Markets Using Intelligent Agents

Prithviraj (Raj) Dasgupta, Yoshitsugu Hashimoto

July 2004

Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1

Full text available: pdf(268.90 KB) Additional Information: full citation, abstract, index terms

Intelligent agents called pricebots provide a convienient mechanism for implementing automated dynamic pricing algorithms for sellers in an online economy. Pricebots enable an online seller to dynamically calculate a competitive price for a product in response to variations in market parameters such as competitorsý prices and consumersý purchase preferences. Previous research on pricebot mediated pricing makes certain simplifying assumptions of online markets such as providing sellers with compl ...

Keywords: Agent mediated e-commerce, dynamic pricing, collaborative filtering

4 Digital libraries and cyberinfastructure track: creating information representations for the humanities (part 2): E-library of medieval chant manuscript transcriptions

Louis W. G. Barton, John A. Caldwell, Peter G. Jeavons

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(668.36 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present our rationale and design principles for a *distributed e-library* of medieval chant manuscript transcriptions. We describe the great variety in *neumatic* notations, in order to motivate a standardised data representation that is *lossless* and universal with respect to these musical artefacts. We present some details of the data representation and an XML Schema for describing and delivering transcriptions via the Web. We argue against proposed data format ...

Keywords: XML, chant, comparison, data representation, digital libraries, medieval manuscripts, musical notation, search, transcription

5 Representing and Simulating Consumers' Behavior in an Information Sensitive Market Place

Filippo Neri

July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 3**

Full text available: pdf(70.02 KB) Additional Information: full citation, abstract, index terms

An agent based tool for analysing markets behaviour under several rate of information diffusion is described. This methodology allows for the study of tradeoffs among several variables of information like product advertisement efforts, consumersý memory span, and passing word among friends in determining market shares. Insights gained by using this approach on an hypothetical economy are reported.

6 Learning classifier systems and other genetics-based machine learning: An abstraction agorithm for genetics-based reinforcement learning

Will Browne, Dan Scott

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Full text available: pdf(429.11 KB) Additional Information: full citation, abstract, references, index terms

Abstraction is a higher order cognitive ability that facilitates the production of rules that are independent of their associations. Experience from real-world data-mining has shown the need for such higher level rules. The game of Connect 4 is both multistep and complex, so standard Q-learning and Learning Classifier Systems perform poorly. The introduction of a novel Abstraction algorithm into an LCS is shown to improve performance in the evolution of playing strategies.

Keywords: abstraction, genetics-based machine learning, learning classifier systems

7 Face recognition: A literature survey



W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: pdf(4.28 MB) Additional Information: full citation, abstract, references, citings, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

8 Crawling: Accelerated focused crawling through online relevance feedback



Soumen Chakrabarti, Kunal Punera, Mallela Subramanyam
May 2002 **Proceedings of the 11th international conference on World Wide Web**

Full text available: pdf(589.82 KB) Additional Information: full citation, abstract, references, citings, index terms

The organization of HTML into a tag tree structure, which is rendered by browsers as roughly rectangular regions with embedded text and HREF links, greatly helps surfers locate and click on links that best satisfy their information need. Can an automatic program emulate this human behavior and thereby learn to predict the relevance of an unseen HREF target page w.r.t. an information need, based on information limited to the HREF source page? Such a capability would be of great interest in focuse ...

Keywords: document object model, focused crawling, reinforcement learning

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Frank Kargl, Joern Maier, Michael Weber

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available: pdf(390.23 KB) Additional Information: full citation, references, citings, index terms

Keywords: DDoS, Linux, class based routing, distributed denial of service attacks, web server security

2 Systems and applications: Recovery of mobile internet transactions: algorithm, implementation and analysis

Shashi Anand B, Krithi Ramamritham

June 2005 **Proceedings of the 4th ACM international workshop on Data engineering for wireless and mobile access**

Full text available: pdf(191.76 KB) Additional Information: full citation, abstract, references, index terms

The increasing popularity of mobile devices and the support of web portals towards performing transactions from these mobile devices has enabled business on the move. However, internet access from mobile devices is expensive and is subject to high rate of disconnections. For a user executing a transaction with a web portal from a mobile device, the disconnection will require him to redo all the steps in the transaction on subsequent reconnection. This paper proposes a recovery scheme to restore ...

Keywords: WAP, WAP internet transaction, internet transaction, mobile internet transaction, mobile transaction, recovery

3 An Internet-based negotiation server for e-commerce

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriyawej, Minsoo Lee, Herman Lam

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Full text available: pdf(355.19 KB) Additional Information: full citation, abstract, citings, index terms

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Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

4 Industrial sessions: big data: The SDSS skyserver: public access to the sloan digital sky server data

Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Raddick, Christopher Stoughton, Jan vandenBerg

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS) data for both astronomers and for science education. This paper describes the SkyServer goals and architecture. It also describes our experience operating the SkyServer on the Internet. The SDSS data is public and well-documented so it makes a good test platform for research on database algorithms and performance.

5 Performance lies my professor told me: the case for teaching Software Performance Engineering to undergraduates

Robert F. Dugan

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1

Full text available: pdf(1.76 MB) Additional Information: full citation, abstract, references, index terms

In this paper we report a survey examining the approach to performance and software engineering in courses at highly ranked computer science schools in the United States. An analysis of the survey shows serious shortcomings including inadequate or missing definitions of performance, reactive "fix it later" mentality, vague performance requirements, and a general lack of awareness of the practices developed by the Software Performance Engineering (SPE) community. The survey is followed by guideli ...

Keywords: education, performance, software engineering

6 Caching: Efficient prediction of web accesses on a proxy server

Wenwu Lou, Hongjun Lu

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available: pdf(350.55 KB) Additional Information: full citation, abstract, references, index terms

Web access prediction is an active research topic with many applications. Various approaches have been proposed for Web access prediction in the domain of individual Web servers but they have to be tailored to the domain of proxy servers to satisfy its special requirements in prediction efficiency and scalability. In this paper, the design and implementation of proxy-based prediction service (PPS) is presented. For prediction efficiency, PPS applies a new prediction scheme which employs a two-la ...

Keywords: navigational model, proxy server, web access prediction

7 Internet intrusions: global characteristics and prevalence
Vinod Yegneswaran, Paul Barford, Johannes Ullrich
June 2003 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 31 Issue 1
Full text available: pdf(699.44 KB) Additional Information: full citation, abstract, references, citings, index terms

Network intrusions have been a fact of life in the Internet for many years. However, as is the case with many other types of Internet-wide phenomena, gaining insight into the *global* characteristics of intrusions is challenging. In this paper we address this problem by systematically analyzing a set of firewall logs collected over four months from over 1600 different networks world wide. The first part of our study is a general analysis focused on the issues of distribution, categorization ...

Keywords: internet performance and monitoring, network security, wide area measurement

8 Network & server performance evaluation: An analytical model for multi-tier internet services and its applications
Bhuvan Urgaonkar, Giovanni Pacifici, Prashant Shenoy, Mike Spreitzer, Asser Tantawi
June 2005 **Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**
Full text available: pdf(228.46 KB) Additional Information: full citation, abstract, references, index terms

Since many Internet applications employ a multi-tier architecture, in this paper, we focus on the problem of analytically modeling the behavior of such applications. We present a model based on a network of queues, where the queues represent different tiers of the application. Our model is sufficiently general to capture (i) the behavior of tiers with significantly different performance characteristics and (ii) application idiosyncrasies such as session-based workloads, concurrency limits, and c ...

Keywords: MVA algorithm, internet application, queuing model

9 Promises and reality: Server I/O networks past, present, and future
Renato John Recio
August 2003 **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications**
Full text available: pdf(225.62 KB) Additional Information: full citation, abstract, references, index terms

Enterprise and technical customers place a diverse set of requirements on server I/O networks. In the past, no single network type has been able to satisfy all of these requirements. As a result several fabric types evolved and several interconnects emerged to satisfy a subset of the requirements. Recently several technologies have emerged that enable a single interconnect to be used as more than one fabric type. This paper will describe the requirements customers place on server I/O networks; t ...

Keywords: 10 GigE, Cluster, Cluster Networks, Gigabit Ethernet, I/O Expansion Network, IOEN, InfiniBand, LAN, PCI, PCI Express, RDMA, RNIC, SAN, Socket Extensions, TOE, iONIC, iSCSI, iSER

10 Windows NT as a personal or intranet server
Larry Press

May 1996 **Communications of the ACM**, Volume 39 Issue 5

Full text available: pdf(206.20 KB) Additional Information: full citation, references, index terms

11 Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham

June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Full text available: pdf(927.23 KB) Additional Information: full citation, abstract, references, index terms

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost---each request requires computation as well as communication across multiple components.To address these issues, various dynamic content caching ap ...

Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

12 PocketLens: Toward a personal recommender system

Bradley N. Miller, Joseph A. Konstan, John Riedl

July 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 3

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

Recommender systems using collaborative filtering are a popular technique for reducing information overload and finding products to purchase. One limitation of current recommenders is that they are not portable. They can only run on large computers connected to the Internet. A second limitation is that they require the user to trust the owner of the recommender with personal preference data. Personal recommenders hold the promise of delivering high quality recommendations on palmtop computers, e ...

Keywords: Collaborative Filtering, Peer-to-Peer Networking, Privacy, Recommender Systems

13 Versioning and fragmentation: Managing versions of web documents in a transaction-time web server

Curtis E. Dyreson, Hui-ling Lin, Yingxia Wang

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(238.32 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a transaction-time HTTP server, called TTApache that supports document versioning. A document often consists of a main file formatted in HTML or XML and several included files such as images and stylesheets. A change to any of the files associated with a document creates a new version of that document. To construct a document version history, snapshots of the document's files are obtained over time. Transaction times are associated with each file version to record the version ...

Keywords: observant system, transaction time, versioning

14 An architecture for WWW-based hypercode environments

Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang

May 1997 **Proceedings of the 19th international conference on Software engineering**

Full text available: pdf(1.84 MB) Additional Information: full citation, references, citings, index terms

15 Integrating open hypermedia systems with the World Wide Web

Kenneth M. Anderson

April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Full text available: pdf(1.00 MB) Additional Information: full citation, references, citings, index terms

Keywords: Chimera, World Wide Web, intergration, open hypermedia systems

16 Internet based audiovisual communication tools used in a joint engineering design class at the University of Alabama in Huntsville and the Ecole Superieure et de Construction Automobile (ESTACA) in Paris, France

Robert L. Middleton, Robert A. Frederick

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: html(54.88 KB) Additional Information: full citation, abstract, references

The University of Alabama in Huntsville, College of Engineering, in collaboration with the Colleges of Liberal Arts and Administrative Sciences, has for the last several years offered an annual senior level student design class using the Integrated Product Team approach. This year the participation in the class was expanded to include Engineering students from ESTACA in Paris, France. A small, but highly regarded, high school computer class in Linden, Alabama also participated in portions of the ...

Keywords: audiovisual, distant dducation, internet communication

17 Columns: Surfing the net for software engineering notes

Mark Doernhoefer

November 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 6

Full text available: pdf(1.99 MB) Additional Information: full citation

18 Advertising, profits, switching costs, and the Internet

Avi Goldfarb

September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03**

Full text available: pdf(251.31 KB) Additional Information: full citation, abstract, references, index terms

In this paper, I model the online media market. There are three types of players in the market: advertisers, publishers, and users. The advertising side of the market is competitive and publishers are price takers. To draw users, they compete in quality. I find that without any frictions, publishers will earn zero profits; however, if users face switching costs, publishers earn positive profits because they deteriorate quality to the locked-in users. I provide empirical evidence for this predict ...

Keywords: B2C eCommerce, Internet publishing, competition., personalization, profitability, switching costs

19 Session 8: Characterizing customer groups for an e-commerce website

Qing Wang, Dwight J. Makaroff, H. Keith Edwards

May 2004 **Proceedings of the 5th ACM conference on Electronic commerce**

Full text available: pdf(722.13 KB) Additional Information: full citation, abstract, references, index terms

In conventional commerce, customer groups with similar interests or behaviours can be observed. Similarly, customers in E-commerce naturally form groups. These groups allow the organization to provide quality of service (QoS) and perform capacity planning. From a system point of view, overall server performance can be improved and resources managed considering customer session behaviour.Previous studies have grouped customers using clustering techniques. Different data metrics have been selected ...

Keywords: electronic commerce, session behaviour, workload characterization

20 Architecture and implementation of Web sites: Cataclysm: policing extreme overloads in internet applications

Bhuvan Urgaonkar, Prashant Shenoy

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(213.31 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present the Cataclysm server platform for handling extreme overloads in hosted Internet applications. The primary contribution of our work is to develop a low overhead, highly scalable admission control technique for Internet applications. Cataclysm provides several desirable features, such as guarantees on response time by conducting accurate size-based admission control, revenue maximization at multiple time-scales via preferential admission of important requests and dynamic c ...

Keywords: internet application, overload, sentry

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IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
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1 Using certes to infer client response time at the web server

David Olshefski, Jason Nieh, Dakshi Agrawal

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Full text available: pdf(2.30 MB) Additional Information: full citation, abstract, references, index terms

As businesses continue to grow their World Wide Web presence, it is becoming increasingly vital for them to have quantitative measures of the mean client perceived response times of their web services. We present Certes (CliEnt Response Time Estimated by the Server), an online server-based mechanism that allows web servers to estimate mean client perceived response time, as if measured at the client. Certes is based on a model of TCP that quantifies the effect that connection drops have on mean ...

Keywords: Web server, client perceived response time

2 Protecting web servers from distributed denial of service attacks

Frank Kargl, Joern Maier, Michael Weber

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available: pdf(390.23 KB) Additional Information: full citation, references, citings, index terms

Keywords: DDoS, Linux, class based routing, distributed denial of service attacks, web server security

3 Systems and applications: Recovery of mobile internet transactions: algorithm, implementation and analysis

Shashi Anand B, Krithi Ramamritham

June 2005 **Proceedings of the 4th ACM international workshop on Data engineering for wireless and mobile access**

Full text available: pdf(191.76 KB) Additional Information: full citation, abstract, references, index terms

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5 The Outlaw 'Net': Opposition to ICANN¿s New Internet Order
Enda Brophy
December 2002 **ACM SIGCAS Computers and Society**, Volume 32 Issue 4
Full text available: htm(132.34 KB) Additional Information: full citation, index terms

6 Caching: Efficient prediction of web accesses on a proxy server
Wenwu Lou, Hongjun Lu
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**
Full text available: pdf(350.55 KB) Additional Information: full citation, abstract, references, index terms

Web access prediction is an active research topic with many applications. Various approaches have been proposed for Web access prediction in the domain of individual Web servers but they have to be tailored to the domain of proxy servers to satisfy its special requirements in prediction efficiency and scalability. In this paper, the design and implementation of proxy-based prediction service (PPS) is presented. For prediction efficiency, PPS applies a new prediction scheme which employs a two-la ...

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7 Industrial sessions: big data: The SDSS skyserver: public access to the sloan digital sky server data
Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Raddick, Christopher Stoughton, Jan vandenBerg
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**
Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS) data for both astronomers and for science education. This paper describes the SkyServer goals and architecture. It also describes our experience operating the SkyServer on the Internet. The SDSS data is public and well-documented so it makes a good test platform for research on database algorithms and performance.

8 Understanding and reducing web delays
Kevin Curran, Connor Duffy
March 2005 **International Journal of Network Management**, Volume 15 Issue 2
Full text available: pdf(133.73 KB) Additional Information: full citation, abstract, references, index terms

Over the years the number of web users has increased dramatically unfortunately leading to the inherent problem of congestion. This can affect each user's surfing experience. This paper investigates download times associated with a web request, identifies where delays occur, and provides guidelines which can be followed by web developers to enable a faster and more efficient download and service for their users.

9 Using the web as a collaborative tool

Sharon Paranto

October 2002 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 1

Full text available: pdf(40.62 KB) Additional Information: full citation, abstract, references, index terms

This paper describes how the Internet was used as a collaborative tool in a "real-world" website development project, a group project assigned to students taking an Advanced Computer Applications course. Students worked collaboratively in small groups and coordinated with area businesses, both in person and online, to develop interactive websites for the businesses. The ability to temporarily publish the websites to the university's E-learning server meant that students could work on the project ...

10 Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham

June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Full text available: pdf(927.23 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

11 AAA architecture for mobile IPv6 based on WLAN

R. C. Wang, R. Y. Chen, Han-Chieh Chao

September 2004 **International Journal of Network Management**, Volume 14 Issue 5

Full text available: pdf(177.10 KB) Additional Information: full citation, abstract, references, index terms

Mobility support for Internet devices is quite important for consumer electronics. The number of the hand-held devices is growing quickly. However, there are not enough IP addresses for the number of the rapidly growing devices in the All-IP generation. Internet Protocol version 6 (IPv6) was therefore adopted to solve these problems. Our purposed structure is based on IEEE 802.11. However, IEEE 802.11 has a serious security drawback. Further, from the Internet Service Providers' point of view, a ...

12 NetNews: Free for all

Dennis Fowler

September 2000 **netWorker**, Volume 4 Issue 3

Full text available: pdf(176.54 KB) html(20.60 KB) Additional Information: full citation, index terms

13

Mobile computing: beyond laptops
Laura Cappelletti
October 1997 **Proceedings of the 15th annual international conference on Computer documentation**
Full text available: pdf(406.32 KB) Additional Information: full citation, index terms

14 Performance and cost tradeoffs in Web search
Nick Craswell, Francis Crimmins, David Hawking, Alistair Moffat
January 2004 **Proceedings of the fifteenth conference on Australasian database - Volume 27 CRPIT '04**
Full text available: pdf(153.92 KB) Additional Information: full citation, abstract, references, citings

Web search engines crawl the web to fetch the data that they index. In this paper we re-examine that need, and evaluate the network costs associated with data acquisition, and alternative ways in which a search service might be supported. As a concrete example, we make use of the Research Finder search service provided at http://rf.panopticsearch.com, and information derived from its crawl and query logs. Based upon an analysis of the Research Finder system we introduce a hybrid arrangement, in ...

Keywords: Web crawling, World-Wide Web, information retrieval, metasearch, search engine

15 A role-based access control model and reference implementation within a corporate intranet
David F. Ferraiolo, John F. Barkley, D. Richard Kuhn
February 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 1
Full text available: pdf(252.60 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes NIST's enhanced RBAC model and our approach to designing and implementing RBAC features for networked Web servers. The RBAC model formalized in this paper is based on the properties that were first described in Ferraiolo and Kuhn [1992] and Ferraiolo et al. [1995], with adjustments resulting from experience gained by prototype implementations, market analysis, and observations made by Jansen [1988] and Hoffman [1996]. The implementation of RBAC for the Web (RBAC/Web) p ...

Keywords: RBAC, Web arrows, World Wide Web, access control, authorization management, role based access

16 Principled design of the modern Web architecture
Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2
Full text available: pdf(335.47 KB) Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

17 P9: The global impact of eBooks on ePublishing
Harold Henke
October 2001 **Proceedings of the 19th annual international conference on Computer documentation**
Full text available: pdf(344.79 KB) Additional Information: full citation, abstract, references, index terms

The advent of eBooks and electronic publishing is changing not only the North American publishing industry but Europe as well. In Europe, many publishers are embracing the ePublishing industry as well as companies which have emerged to develop tools and web sites to develop and sell eBooks, not only in the European Union but in North America.In Asia, the electronic book industry is fueled by two industries: manufacturers who are developing hardware devices to read eBooks and content providers wh ...

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18 Letters to the editor: Digital delivery considerations for entertainment media
Nathan Raciborski
October 2004 **Computers in Entertainment (CIE)**, Volume 2 Issue 4
Full text available: pdf(90.01 KB) Additional Information: full citation, abstract

To the delight of content providers, 2003 was the year in which significant consumer demand began to build for paid online content. The momentum was seen most notably in music licensed and delivered via the Internet with hundreds of thousands of songs readily available from numerous legal download services. With widespread adoption of broadband connectivity, other forms of digital content such as movies, games and IP television are increasingly capturing large audiences as well. The challenge ...

19 Replication for web hosting systems
Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen
September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3
Full text available: pdf(374.99 KB) Additional Information: full citation, abstract, references, index terms

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduced client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks (CDNs) have been created to facilitate replication for digital content providers. The success of these CDNs has triggered further research efforts into developing advanced Web replica hosting systems. These are systems that ...

Keywords: Web replication, content delivery networks

20 The ecologies of technologically mediated work: three perspectives: Publications management from an ecological perspective: three documentation case studies
Tiffany Means-Zachry
September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork**
Full text available: pdf(565.78 KB) Additional Information: full citation, abstract, references

This paper uses an information ecology metaphor to examine the performance of publications management tasks. The author applies an ecological perspective focusing on the humans, tools, values, and objectives involved in publications activities to three case studies. These case studies provide insight into the development, integration, and remediation of information ecologies. The author contends that applying an ecological perspective will help facilitate successful completion of publications ta ...

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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